☐ First aid kit visible and readily available to the crew and properly marked "First Aid Kit" — 46 CFR 121.710, 46 CFR 160.041

Fire Protection:

☐ Fire control plan — 46 CFR 116.530
- Permanently posted
- Copy permanently stored in weathertight container outside deckhouse — SOLAS 74/78 II-2/20

☐ Fire and smoke detection systems (required on existing wood / FRP vessels) — 46 CFR 118.115
- Sensors tested — 46 CFR 118.400(c)
- Alarms tested — 46 CFR 118.400(e)

☐ Portable and semiportable fire extinguishers — 46 CFR 115.810
- Annual service in accordance with NFPA 10 — 46 CFR 115.810(b)(1)
  - Date cylinders hydro-tested _____
- Proper location — 46 CFR 118.500, 46 CFR 118.520

Required		On Board	
Number	**Class**	**Number**	**Class**

☐ Fixed firefighting for galley vent hood system — 46 CFR 118.400(d), 46 CFR 118.425

Notes: _____

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☐ Fixed fire extinguishing systems — 46 CFR 115.810(a)(2), 46 CFR 115.810(b)(2), 46 CFR 118.400, 46 CFR 118.410, 46 CFR 118.420
- Annual service
  - Date cylinders weighed _____
  - Date cylinders hydro-tested _____
- Sprinklers tested in vehicle spaces
- Alarms
- Engine / power ventilation shutdowns tested (engine shutdown not required on existing vessels with CO_2, BUT is required with Halon) — 46 CFR 119.465(h), NVIC 6-72
- Manual ventilation closures on protected spaces
- Instructions at controls and in space — 46 CFR 122.612
- Piping
- Valves
- Controls

Spaces Protected	Agent	Capacity

☐ Fire main system and stations — 46 CFR 115.810(a)(3), 46 CFR 118.310
- Fire main system tested
  - Piping
  - Valves
  - Fittings
- Number hose stations required _____ — 46 CFR 115.810(c)
- Fire hose — 46 CFR 118.320
  - Minimum 5/8-inch hose and nozzle 25-50 feet in length
  - 1.5-inch hose and nozzle (required for vessels > 65 feet and vessels carrying > 49 passengers)
  - Nozzles and spanners

Number of Hoses Required	Number of Hoses On Board	Diameter of Each Hose	Length of Each Hose

Notes: _____

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☐ Lifefloats and buoyant apparatus — 46 CFR 117.200(a)(2)
- Coast Guard approval — 46 CFR 117.175(d)
- Lifeline — 46 CFR 117.175(f)
- Pendants — 46 CFR 160.010-8
- Two paddles per lifefloat
  - 4 feet in length
  - Marked with vessel name — 46 CFR 122.604(g)
- Waterlight with proper battery
  - Properly mounted, secure splices
  - Watertight globe
  - Float-free
- Marked with vessel name — 46 CFR 122.604(a)
- Stowage — 46 CFR 117.130
- Properly sized and approved weak link — 46 CFR 117.137
- Sea painter — 46 CFR 160.037
- Retro-reflective tape — NVIC 2-63

☐ Inflatable buoyant apparatus — 46 CFR 117.200(a)(4)
- Annual service — 46 CFR 160.010

☐ Inflatable liferafts — 46 CFR 117.200(a)(1)
- Capacity of 6 or more persons
- Stowage — 46 CFR 117.130
  - Float-free
- Annual service — 46 CFR 160.151

☐ Inflatable survival craft placards posted — 46 CFR 122.518

☐ Rescue boats / rescue platforms — 46 CFR 117.210
(vessels > 65 feet)
- Marked with vessel name — 46 CFR 122.604(a)(1)
- Capacity — 46 CFR 122.604(d)
- Retro-reflective tape — 46 CFR 122.604(i)
- Small, lightweight with floatation — NVIC 1-87
- Readily launched, easily maneuvered
- Capable of recovering person without capsizing

Notes:_____

☐ Cooling system — 46 CFR 119.420
- Type of engine cooling system _____
- Temperature gauges (operating station) — 46 CFR 119.410
- Installation — 46 CFR 119.422

☐ Exhaust system — 46 CFR 119.425
- Type of exhaust cooling system _____
- Loss of cooling alarm on vessel with wet exhaust (vessels with a separate exhaust cooling pump must have a loss of cooling alarm)
  - Visible / audible
  - Located at operating station
- Leaks — 46 CFR 119.430
  - Seams
  - Elbows
  - Joints
  - Flexible hoses

☐ Fuel system — 46 CFR 115.804
- Tank space properly vented — 46 CFR 119.470
  - > 500 cubic feet = gooseneck > 2.5 inches
  - < 500 cubic feet = gooseneck > 1.5 inches
- Fuel tank vents — 46 CFR 119.450
  - Vent openings not located adjacent to possible sources of vapor ignition
  - 30 x 30 mesh screen
- Independent fuel tanks grounded — 46 CFR 119.440
  - Electrically bonded to a common ground
- Portable fuel tanks — 46 CFR 119.458
  - Stowed on deck in racks
  - "No Smoking" placards posted
- Shutoff valves tested (tank and engines) — 46 CFR 119.455
  - Located at the ends of each fuel line
  - If tank end not located outside of tank space, handle must be within 12-inch reach and shielded
- Fuel strainers
- Solid bottom type petcocks with tapered plugs and union bonnets
- Fuel tank fill hose — 46 CFR 119.445
  - Top flange grounded to tank
  - Flexible hoses
- Termination of filling, sounding or vent pipes outside vessel

Notes: _____

☐ Emergency evacuation plan — 46 CFR 116.520

- Describe actions for fires and flooding
- Evacuating procedures
- Refuge area (3 square feet / person)
- Show two means of escape from each space
- Abandon ship plan

☐ Means of escape — 46 CFR 116.500

- Operable from both sides
- Marked “Emergency Exit, Keep Clear” — 46 CFR 116.606

☐ Embarkation stations — 46 CFR 116.510

- Handholds
- Well-illuminated
- Handrails and lifelines with openings to allow passengers to board survival craft

☐ Cooking and heating systems

- LPG / CNG stowage — 46 CFR 121.240
- Shutoff valves installed on gas systems
- Sea rails installed on galley stoves — 46 CFR 121.220

☐ Sanitary inspection — 46 CFR 115.818

- Galley
- Serving pantries
- Lockers

☐ Ventilation — 46 CFR 116.600

- Remote shutdown

☐ Passenger Safety Orientation — 46 CFR 122.506

- Public announcement
- Card or pamphlet

☐ Crew and passenger list — 46 CFR 122.502

Notes: _____

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☐ Bilge pumps tested — 46 CFR 115.804(h), 46 CFR 119.520(a)

- Source of power for each pump
- Overboard discharge
- Visual indicator for auto bilge pump operation — 46 CFR 119.530(b)

☐ Portable bilge pump tested — 46 CFR 119.520(b)
(vessels < 65 feet)

- Suction capable of reaching the bottom of all compartments

☐ Bilge piping — 46 CFR 119.510

- Check valves in each compartment or stop / check valves at manifold
- Valve fitted on collision bulkhead
  - Screw down valve type
  - Operable from weatherdeck if forward; readily accessible if aft

☐ Bilge high level alarm — 46 CFR 119.530

- Visible / audible
- Located at operating stations

☐ Deck machinery — 46 CFR 115.816

- Windlass
- Winches
- Capstans
- Controls
- Guards

☐ Pressure vessels required to be periodically tested — 46 CFR 115.812, 46 CFR 61.10

- Inspected every 3 years

Service	Working Pressure	Relief Valve Setting	Date Tested or Examined

Notes: _____

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☐ Noncombustible trim — 46 CFR 116.422
- Ceilings
- Interior finish
- Decorations
- Reasonable paint coatings

☐ Fire-resistant furnishings — 46 CFR 116.423
- Furniture meets UL Std. 1056
- Draperies and curtains meet NFPA Std. 701
- Rugs and carpet meet ASTM E-84 or E-648

☐ Fire loads — 46 CFR 116.427
- Low-risk areas < 3 pounds / square feet
- High-risk areas < 7.5 pounds / square feet

☐ Windows in fire control boundaries — 46 CFR 116.433
- Laminated glass
- Steel frames

☐ Fire doors — 46 CFR 116.435
- A-60, A-30, A-15 bulkhead = A-15 door
- A-0 bulkhead = A-0 door
- Self-closing (stairtower and MVZ)
- Operable from either side

☐ Stairtowers — 46 CFR 116.438
- Rails
- Obstructions

☐ Balconies — 46 CFR 116.439
- Automatic sprinkler system
- Each level with two means of escape

☐ Atriums — 46 CFR 116.440
- Smoke detection system (vessels with overnight passengers)
- Smoke extraction system
- Automatic sprinkler system
- Each level with two means of escape

Notes: _____

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☐ Switchboards and distribution panels — 46 CFR 120.330
- Circuits and electrical equipment marked and identified — 46 CFR 120.220
  - Warning sign for multiple power sources
- Protective covering
- Dripshield
- Overcurrent protection

☐ Radios fused at main panel — 46 CFR 120.392

☐ Cable, wiring, receptacles, outlets, accessories — 46 CFR 120.340
- Installation
  - Wire type — 46 CFR 120.320(d)
  - Wire size — 46 CFR 120.340(c)
  - Splices — 46 CFR 120.340(p)
  - Connectors
  - Metal wire supports every 24 inches (not required on existing vessels) — 46 CFR 120.340(b)
- Grounding — 46 CFR 120.370
- Overcurrent protection — 46 CFR 120.372, 46 CFR 120.380

☐ Miscellaneous motors and controllers
- Proper location — 46 CFR 120.320
- Grounding — 46 CFR 120.372

☐ Lighting fixtures — 46 CFR 120.410
- Suitable guards
- Properly secured

☐ Portable lighting — 46 CFR 120.430
- At least two lights
  - One at operating station
  - One at entrance to propulsion / machinery space

Notes: _____

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☐ Radio equipment — 46 CFR 121.502, 47 CFR 80.905

IF vessel travels:	THEN it must have:
More than 1000 feet from shore but less than 20 NM	1 VHF
20 NM to 100 NM	1 VHF and 1 MF
100 NM to 200 NM	1 VHF, 1 MF, 1 SSB or INMARSAT radio, and 1 NAVTEX receiver
More than 200 NM	2 VHF, 1 MF, 1 SSB or INMARSAT radio, 1 NAVTEX receiver, 1 distress frequency receiver, and 1 automatic radiotelephone alarm signal generator

☐ Emergency broadcast placard posted — 46 CFR 121.506

☐ Electronic position fixing device (vessels on oceans routes only) — 46 CFR 121.410

☐ EPIRB (406 MHz) tested — 46 CFR 122.728

- Float-free arrangement — 46 CFR 117.64
- Battery expiration date
- HRU / Hydro expiration date
- NOAA registered
- Tests logged
- Marked with vessel name — 46 CFR 122.604(c)

☐ Public address system tested — 46 CFR 121.610

IF vessel is:	THEN vessel must have:
> 65 feet	Fixed installation
≤ 65 feet	Battery bullhorn
Has more than one passenger deck or has overnight accommodations	A PA system that is operable from the operating station

Notes: _____

Section 4: Drills

☐ **Fire Drill:**

Initial notifications	Familiarity with duties	Space isolation
General alarms / signals	Familiarity with equipment	Smoke control
Crew response	Fire pumps started	Arrange care of passengers
Properly dressed / equipped	Two jets of water	Communications w/ bridge
Language understood by crew	Fire doors and dampers	

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.i; NVIC 6-91)

Location: _____ Time on Scene: _____

Notes: _____

Section 3: Inspection Items

Navigation Safety:

- ☐ Voyage plan — 46 CFR 122.503
  (vessels on oceans / coastwise routes, vessels with overnight passengers)
- ☐ Passenger count — 46 CFR 122.504
  (if voyage plan not required)
- ☐ Emergency instruction list posted — 46 CFR 122.510
- ☐ Navigation publications — 46 CFR 121.420
  - Current and corrected charts (large enough scale to navigate safely)
  - U.S. Coast Pilot
  - Coast Guard Light List
  - Tide tables
  - Tidal current tables
  - International Rules of the Road (SOLAS only)
- ☐ Navigation lights tested — 46 CFR 120.420, 33 CFR Part 84, 72 COLREGS
  (vessels > 65 feet must meet UL 1104)
  - Side shields
    - Fitted as needed
    - Painted black matte
- ☐ Radar — 46 CFR 121.404
- ☐ Magnetic compass — 46 CFR 121.402
  (vessels on oceans / coastwise / limited coastwise routes)
  - Illuminated (unless limited to daytime operations)

Notes: _____

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Section 5: Drydock Inspection Items

Hull Structural Integrity:

- ☐ Vessel plans available — 46 CFR 115.612
  (vessels with load lines)
- ☐ External structural members — 46 CFR 115.610, NVIC 7-95
  - Plating
  - Planking
  - Caulking
  - Reinforcing straps
  - Stem
  - Transom
  - Bilge keels
  - Keel
  - Welds
  - Pitting
  - Signs of electrolysis

Overall Condition:

Poor	Good

Areas of particular interest: _____

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Certificates:

- ☐ COI posted — 46 CFR 115.107, 46 CFR 115.302
  - All pages visible
- ☐ Stability letter posted — 46 CFR 115.306
- ☐ Small Passenger Vessel (SPV) decal posted — 46 CFR 115.310
- ☐ Station bill posted (vessels > 65 feet with more than 4 crew members) — 46 CFR 122.514
- ☐ Passenger safety bill posted — 46 CFR 122.515
- ☐ Waste management plan (oceangoing vessels ≥ 40 feet) — 33 CFR 151.57
- ☐ Red Cross first aid / CPR cards for 50% of crew — NVIC 1-91
- ☐ Annual drug and alcohol program audit — 46 CFR Part 16
- ☐ Liferaft servicing certificates — 46 CFR 160.151-57(p), SOLAS 74/78 III/19.8
  - Annual service
- ☐ Fixed fire extinguisher servicing certificates — 46 CFR 115.810(b)(2)
  - Annual service
- ☐ Required international safety convention certificates posted and valid — 46 CFR 115.302

Manning Certification:

- ☐ Operator's license — 46 CFR 15.805, 46 CFR 122.402
  - Name
  - Issue date
  - Tonnage
  - Route

Notes: _____

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Watertight Integrity:

NOTE: *Guidance on watertight and weathertight inspections can be found in MSM Volume II, Chapter 6.F.5.*

- ☐ Hatches — 46 CFR 116.1160, 46 CFR 171.124, MSM Vol. IV Ch. 6.I.5
  - Dogs or other securing appliances
  - Covers
  - Gaskets
  - Coamings
- ☐ Airports below weatherdecks — MSM Vol. IV Ch. 6.I.4
  - Dogs or other securing appliances
  - Rims or seats
  - Glass
  - Dead covers
  - Hinges and lugs
- ☐ Self-bailers and cockpit freeing ports — 46 CFR 116.1120, 46 CFR 171.145, 46 CFR 171.150
  - Check valves
  - Required area
- ☐ Compartment or inner bottom drains (drydocking drains)
  - Secure plugs
- ☐ Draft marks and load lines — 46 CFR 122.602
  - Proper locations
  - Legibly inscribed
  - Proper spacing and size
  - Load line markings verified (vessels ≥ 79 feet)

Rudders, Propellers, and Tailshafts:

- ☐ Rudder(s) — 46 CFR 115.610
  - Skeg
  - Stock
  - Fastenings
  - Bushings

Notes: _____

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Section 2: Certificates and Documents

Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date	Endors. Date
Certificate of Documentation No Change	USCG					
Passenger Ship Safety (PSS) No Change	USCG					
Load Line No Change						
International Tonnage (ITC) No Change						
Safety Management (SMC) No Change						
Document of Compliance (DOC) No Change						

Section 6: Special Drydock Extension Underwater Survey

NOTE: *Drydock extensions of up to 30 months are available to steel or aluminum K-boats that operate on certain low-risk routes in fresh water. Guidance for conducting these surveys is found in MSM Vol. II/B3.A.4.d.*

WARNING: *ALL passengers must be removed from vessel prior to removal of sea valves.*

Review of Application for Underwater Survey:

☐ Submitted 90 days before survey date

☐ Identify diving contractor

- Number of divers
- Type of diving equipment
- NDT and repair capabilities

☐ Copy of diving operations manual

- Means of waterborne diver support

☐ Means of taking rudder bearing clearances

☐ Sea chest blanks

☐ Letter from master / chief engineer / person-in-charge

☐ Diving personnel / equipment

- NDT qualifications
- Repair qualifications
- Video / audio equipment
- Coast Guard and OSHA safety regulations

☐ Hull preparation

- Cleaning method _____
- Hull openings permanently marked

Notes: _____

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Involved Parties & General Information:

Vessel's Representatives
_____
_____
Phone Numbers

Owner—Listed on DOC (if applicable), or COFR
No Change

Operator
No Change

Section 7: Appendices

Recommended US Vessel Deficiency Procedures:

Step	Action
1	Identify deficiency.
2	Inform vessel representative.
3	Record on the *Deficiency Summary Worksheet* (next page).
4	If deficiency is corrected prior to end of inspection, go to Step 7.
5	If deficiency is unable to be corrected prior to end of inspection, issue CG-835 in accordance with table below.
6	Enter CG-835 data in MIDR.
7	Enter deficiency data in MSDS.
8	Initiate Report of Violation (ROV) if necessary.

IF deficiency:	**THEN issue CG-835:**
Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g., • Missing placards • Non-metallic expansion joints more than 10 years in service	That provides a specific time for correcting deficiency, e.g., • "X" number of days • At next drydock
Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g., • Expired international certificates • Automation defect • Insufficient lifesaving equipment	That restricts operation of vessel to meet current vessel conditions, e.g., • Reduced route • Increased crew • Fewer passengers
DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g., • Missing or defective firefighting equipment • Structural defect or damage	That requires the deficiency to be corrected prior to operating vessel ("NO SAIL" item), e.g., • Prior to carrying passengers • Prior to carrying cargo

Table of Contents:

Deficiency	MSIS Code	Req't. Issued / Date Completed

Deficiencies identified should be listed with MSIS codes. At completion of inspection/examination, any outstanding deficiencies shall be entered in MIDR or PSDR as appropriate. All deficiencies found (outstanding and completed) shall be entered in the Deficiency Summary. Worklist items, which serve only as memory joggers to complete inspection/examination (e.g., test emergency fire pump), should not be coded as deficiencies.

MSIS Codes for Deficiencies:

BS	Ballast	**DC**	Dry Cargo	**IC**	I/C Engine
BI	Bilge	**ES**	Electrical	**LS**	Lifesaving
BA	Boiler, Aux.	**FF**	Firefighting	**MI**	Miscellaneous
BM	Boiler, Main	**FL**	Fuel	**NS**	Navigation
CS	Cargo	**GS**	General Safety	**PP**	Propulsion
DM	Deck Machinery	**HA**	Habitation	**SS**	Steering
DL	Doc., Lics., Pmts.	**HU**	Hull		

Total Time Spent Per Activity:

Regular Personnel (Active Duty)			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS

Reserve Personnel			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS

Auxiliary Resources	
TOTAL BOAT HOURS	TOTAL AIRCRAFT HOURS

Conversions:

Distance and Energy

Kilowatts (kW)	X	1.341	=	Horsepower (hp)
Feet (ft)	X	3.281	=	Meters (m)
Long Ton (LT)	X	.98421	=	Metric Ton (t)

Liquid *(**NOTE:** Values are approximate.)*

Liquid	bbl/LT	m^3/t	bbl/m^3	bbl/t
Freshwater	6.40	1.00	6.29	6.29
Saltwater	6.24	.975	6.13	5.98
Heavy Oil	6.77	1.06	6.66	7.06
DFM	6.60	1.19	7.48	8.91
Lube Oil	7.66	1.20	7.54	9.05

Weight

1 Long Ton	=	2240 lbs		1 Metric Ton	=	2204 lbs	
1 Short Ton	=	2000 lbs		1 Cubic Foot	=	7.48 gal	
1 Barrel (oil)	=	5.61 ft = 42 gal = 6.29 m^3		1 psi	=	.06895 Bar = 2.3106 ft of water	

Temperature: Fahrenheit = Celsius (°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))

0	=	-17.8	80	=	26.7	200	=	93.3
32	=	0	90	=	32.2	250	=	121.1
40	=	4.4	100	=	37.8	300	=	148.9
50	=	10.0	110	=	43.3	400	=	204.4
60	=	15.6	120	=	48.9	500	=	260
70	=	21.1	150	=	65.6	1000	=	537.8

Pressure: Bars = Pounds per square inch

1 Bar	=	14.5 psi	5 Bars	=	72.5 psi	9 Bars	=	130.5 psi
2 bars	=	29.0 psi	6 Bars	=	87.0 psi	10 Bars	=	145.0 psi
3 Bars	=	43.5 psi	7 Bars	=	101.5 psi			
4 Bars	=	58.0 psi	8 Bars	=	116.0 psi			